

SEQUENCE LISTING

<110> INCYTE GENOMICS, INC.
YUE, Henry
BANDMAN, Olga
TANG, Y. Tom
BAUGHN, Mariah R.
AZIMZAI, Yalda
LU, Dyung Aina M.

<120> HUMAN CHAPERONE PROTEINS

<130> PF-0728 PCT

<140> To Be Assigned
<141> Herewith

<150> 60/146,908; 60/160,924
<151> 1999-08-03; 1999-10-22

<160> 22

<170> PERL Program

<210> 1

<211> 170

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 723593CD1

<400> 1

Met Ser His Arg Thr Ser Ser Thr Phe Arg Ala Glu Arg Ser Phe
1 5 10 15
His Ser Ser Ser Ser Ser Ser Ser Thr Ser Ser Ser Ala
20 25 30
Ser Arg Ala Leu Pro Ala Gln Asp Pro Pro Met Glu Lys Ala Leu
35 40 45
Ser Met Phe Ser Asp Asp Phe Gly Ser Phe Met Arg Pro His Ser
50 55 60
Glu Pro Leu Ala Phe Pro Ala Arg Pro Gly Gly Ala Gly Asn Ile
65 70 75
Lys Thr Leu Gly Asp Ala Tyr Glu Phe Ala Val Asp Val Arg Asp
80 85 90
Phe Ser Pro Glu Asp Ile Ile Val Thr Thr Ser Asn Asn His Ile
95 100 105
Glu Val Arg Ala Glu Lys Leu Ala Ala Asp Gly Thr Val Met Asn
110 115 120
Thr Phe Ala His Lys Cys Gln Leu Pro Glu Asp Val Asp Pro Thr
125 130 135
Ser Val Thr Ser Ala Leu Arg Glu Asp Gly Ser Leu Thr Ile Arg
140 145 150
Ala Arg Arg His Pro His Thr Glu His Val Gln Gln Thr Phe Arg
155 160 165
Thr Glu Ile Lys Ile
170

<210> 2

<211> 304

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1708350CD1

<400> 2

Met Ala Val Thr Lys Glu Leu Leu Gln Met Asp Leu Tyr Ala Leu
 1 5 10 15
 Leu Gly Ile Glu Glu Lys Ala Ala Asp Lys Glu Val Lys Lys Ala
 20 25 30
 Tyr Arg Gln Lys Ala Leu Ser Cys His Pro Asp Lys Asn Pro Asp
 35 40 45
 Asn Pro Arg Ala Ala Glu Leu Phe His Gln Leu Ser Gln Ala Leu
 50 55 60
 Glu Val Leu Thr Asp Ala Ala Ala Arg Ala Ala Tyr Asp Lys Val
 65 70 75
 Arg Lys Ala Lys Lys Gln Ala Ala Glu Arg Thr Gln Lys Leu Asp
 80 85 90
 Glu Lys Arg Lys Lys Val Lys Leu Asp Leu Glu Ala Arg Glu Arg
 95 100 105
 Gln Ala Gln Ala Gln Glu Ser Glu Glu Glu Glu Ser Arg Ser
 110 115 120
 Thr Arg Thr Leu Glu Gln Glu Ile Glu Arg Leu Arg Glu Glu Gly
 125 130 135
 Ser Arg Gln Leu Glu Glu Gln Arg Leu Ile Arg Glu Gln Ile
 140 145 150
 Arg Gln Glu Arg Asp Gln Arg Leu Arg Gly Lys Ala Glu Asn Thr
 155 160 165
 Glu Gly Gln Gly Thr Pro Lys Leu Lys Leu Lys Trp Lys Cys Lys
 170 175 180
 Lys Glu Asp Glu Ser Lys Gly Gly Tyr Ser Lys Asp Val Leu Leu
 185 190 195
 Arg Leu Leu Gln Lys Tyr Gly Glu Val Leu Asn Leu Val Leu Ser
 200 205 210
 Ser Lys Lys Pro Gly Thr Ala Val Val Glu Phe Ala Thr Val Lys
 215 220 225
 Ala Ala Glu Leu Ala Val Gln Asn Glu Val Gly Leu Val Asp Asn
 230 235 240
 Pro Leu Lys Ile Ser Trp Leu Glu Gly Gln Pro Gln Asp Ala Val
 245 250 255
 Gly Arg Ser His Ser Gly Leu Ser Lys Gly Ser Val Leu Ser Glu
 260 265 270
 Arg Asp Tyr Glu Ser Leu Val Met Met Arg Met Arg Gln Ala Ala
 275 280 285
 Glu Arg Gln Gln Leu Ile Ala Arg Met Gln Gln Glu Asp Gln Glu
 290 295 300
 Gly Pro Pro Thr

<210> 3

<211> 483

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1742550CD1

<400> 3

Met Ala Lys Asp Ala Ser Ser Ala Asp Ile Arg Lys Ala Tyr Arg
 1 5 10 15
 Lys Leu Ser Leu Thr Leu His Pro Asp Lys Asn Lys Asp Glu Asn
 20 25 30
 Ala Glu Thr Gln Phe Arg Gln Leu Val Ala Ile Tyr Glu Val Leu
 35 40 45
 Lys Asp Asp Glu Arg Arg Gln Arg Tyr Asp Asp Ile Leu Ile Asn
 50 55 60
 Gly Leu Pro Asp Trp Arg Gln Pro Val Phe Tyr Tyr Arg Arg Val
 65 70 75
 Arg Lys Met Ser Asn Ala Glu Leu Ala Leu Leu Leu Phe Ile Ile
 80 85 90
 Leu Thr Val Gly His Tyr Ala Val Val Trp Ser Ile Tyr Leu Glu
 95 100 105

Lys Gln Leu Asp Glu Leu Leu Ser Arg Lys Lys Arg Glu Lys Lys
 110 115 120
 Lys Lys Thr Gly Ser Lys Ser Val Asp Val Ser Lys Leu Gly Ala
 125 130 135
 Ser Glu Lys Asn Glu Arg Leu Leu Met Lys Pro Gln Trp His Asp
 140 145 150
 Leu Leu Pro Cys Lys Leu Gly Ile Trp Phe Cys Leu Thr Leu Lys
 155 160 165
 Ala Leu Pro His Leu Ile Gln Asp Ala Gly Gln Phe Tyr Ala Lys
 170 175 180
 Tyr Lys Glu Thr Arg Leu Lys Glu Lys Glu Asp Ala Leu Thr Arg
 185 190 195
 Thr Glu Leu Glu Thr Leu Gln Lys Gln Lys Lys Val Lys Lys Pro
 200 205 210
 Lys Pro Glu Phe Pro Val Tyr Thr Pro Leu Glu Thr Thr Tyr Ile
 215 220 225
 Gln Ser Tyr Asp His Gly Thr Ser Ile Glu Glu Ile Glu Glu Gln
 230 235 240
 Met Asp Asp Trp Leu Glu Asn Arg Asn Arg Thr Gln Lys Lys Gln
 245 250 255
 Ala Pro Glu Trp Thr Glu Glu Asp Leu Ser Gln Leu Thr Arg Ser
 260 265 270
 Met Val Lys Phe Pro Gly Gly Thr Pro Gly Arg Trp Glu Lys Ile
 275 280 285
 Ala His Glu Leu Gly Arg Ser Val Thr Asp Val Thr Thr Lys Ala
 290 295 300
 Lys Gln Leu Lys Asp Ser Val Thr Cys Ser Pro Gly Met Val Arg
 305 310 315
 Leu Ser Glu Leu Lys Ser Thr Val Gln Asn Ser Arg Pro Ile Lys
 320 325 330
 Thr Ala Thr Thr Leu Pro Asp Asp Met Ile Thr Gln Arg Glu Asp
 335 340 345
 Ala Glu Gly Val Ala Ala Glu Glu Gln Glu Gly Asp Ser Gly
 350 355 360
 Glu Gln Glu Thr Gly Ala Thr Asp Ala Arg Pro Arg Arg Arg Lys
 365 370 375
 Pro Ala Arg Leu Leu Glu Ala Thr Ala Lys Pro Glu Pro Glu Glu
 380 385 390
 Lys Ser Arg Ala Lys Arg Gln Lys Asp Phe Asp Ile Ala Glu Gln
 395 400 405
 Asn Glu Ser Ser Asp Glu Glu Ser Leu Arg Lys Glu Arg Ala Arg
 410 415 420
 Ser Ala Glu Glu Pro Trp Thr Gln Asn Gln Gln Lys Leu Leu Glu
 425 430 435
 Leu Ala Leu Gln Gln Tyr Pro Arg Gly Ser Ser Asp Arg Trp Asp
 440 445 450
 Lys Ile Ala Arg Cys Val Pro Ser Lys Ser Lys Glu Asp Cys Ile
 455 460 465
 Ala Arg Tyr Lys Leu Leu Val Glu Leu Val Gln Lys Lys Lys Gln
 470 475 480
 Ala Lys Ser

<210> 4
 <211> 226
 <212> PRT
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 1919301CD1

<400> 4
 Met Ala Ala Met Arg Trp Arg Trp Trp Gln Arg Leu Leu Pro Trp
 1 5 10 15
 Arg Leu Leu Gln Ala Arg Gly Phe Pro Gln Asn Ser Ala Pro Ser
 20 25 30
 Leu Gly Leu Gly Ala Arg Thr Tyr Ser Gln Gly Asp Cys Ser Tyr

35	40	45
Ser Arg Thr Ala Leu Tyr Asp Leu Leu Gly Val Pro Ser Thr Ala		
50	55	60
Thr Gln Ala Gln Ile Lys Ala Ala Tyr Tyr Arg Gln Cys Phe Leu		
65	70	75
Tyr His Pro Asp Arg Asn Ser Gly Ser Ala Glu Ala Ala Glu Arg		
80	85	90
Phe Thr Arg Ile Ser Gln Ala Tyr Val Val Leu Gly Ser Ala Thr		
95	100	105
Leu Arg Arg Lys Tyr Asp Arg Gly Leu Leu Ser Asp Glu Asp Leu		
110	115	120
Arg Gly Pro Gly Val Arg Pro Ser Arg Thr Pro Ala Pro Asp Pro		
125	130	135
Gly Ser Pro Arg Thr Pro Pro Pro Thr Ser Arg Thr His Asp Gly		
140	145	150
Ser Arg Ala Ser Pro Gly Ala Asn Arg Thr Met Phe Asn Phe Asp		
155	160	165
Ala Phe Tyr Gln Ala His Tyr Gly Glu Gln Leu Glu Arg Glu Arg		
170	175	180
Arg Leu Arg Ala Arg Arg Glu Ala Leu Arg Lys Arg Gln Glu Tyr		
185	190	195
Arg Ser Met Lys Gly Leu Arg Trp Glu Asp Thr Arg Asp Thr Ala		
200	205	210
Ala Ile Phe Leu Ile Phe Ser Ile Phe Ile Ile Ile Gly Phe Tyr		
215	220	225
Ile		

<210> 5
<211> 112
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2012055CD1

<400> 5
Met Met Ala Val Glu Gln Met Pro Lys Lys Asp Trp Tyr Ser Ile
1 5 10 15
Leu Gly Ala Asp Pro Ser Ala Asn Ile Ser Asp Leu Lys Gln Lys
20 25 30
Tyr Gln Lys Leu Ile Leu Met Tyr His Pro Asp Lys Gln Ser Thr
35 40 45
Asp Val Pro Ala Gly Thr Val Glu Glu Cys Val Gln Lys Phe Ile
50 55 60
Glu Ile Asp Gln Ala Trp Lys Ile Leu Gly Asn Glu Glu Thr Lys
65 70 75
Arg Glu Tyr Asp Leu Gln Arg Cys Glu Asp Asp Leu Arg Asn Val
80 85 90
Gly Pro Val Asp Ala Gln Val Tyr Leu Glu Glu Met Ser Trp Asn
95 100 105
Glu Val Thr Ser Gln Arg Gln
110

<210> 6
<211> 358
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2238062CD1

<400> 6
Met Ala Ala Thr Leu Gly Ser Gly Glu Arg Trp Thr Glu Ala Tyr
1 5 10 15
Ile Asp Ala Val Arg Arg Asn Lys Tyr Pro Glu Asp Thr Pro Pro
20 25 30

Glu Ser His Asp Pro Cys Gly Cys Cys Asn Cys Met Lys Ala Gln
 35 40 45
 Lys Glu Lys Lys Ser Glu Asn Glu Trp Thr Gln Thr Arg Gln Gly
 50 55 60
 Glu Gly Asn Ser Thr Tyr Ser Glu Glu Gln Leu Leu Gly Val Gln
 65 70 75
 Arg Ile Lys Lys Cys Arg Asn Tyr Tyr Glu Ile Leu Gly Val Ser
 80 85 90
 Arg Asp Ala Ser Asp Glu Glu Leu Lys Lys Ala Tyr Arg Lys Leu
 95 100 105
 Ala Leu Lys Phe His Pro Asp Lys Asn Cys Ala Pro Gly Ala Thr
 110 115 120
 Asp Ala Phe Lys Ala Ile Gly Asn Ala Phe Ala Val Leu Ser Asn
 125 130 135
 Pro Asp Lys Arg Leu Arg Tyr Asp Glu Tyr Gly Asp Glu Gln Val
 140 145 150
 Thr Phe Thr Ala Pro Arg Ala Arg Pro Tyr Asn Tyr Tyr Arg Asp
 155 160 165
 Phe Glu Ala Asp Ile Thr Pro Glu Glu Leu Phe Asn Val Phe Phe
 170 175 180
 Gly Gly His Phe Pro Thr Gly Asn Ile His Met Phe Ser Asn Val
 185 190 195
 Thr Asp Asp Thr Tyr Tyr Arg Arg Arg His Arg His Glu Arg
 200 205 210
 Thr Gln Thr Gln Lys Glu Glu Glu Glu Lys Pro Gln Thr Thr
 215 220 225
 Tyr Ser Ala Phe Ile Gln Leu Leu Pro Val Leu Val Ile Val Ile
 230 235 240
 Ile Ser Val Ile Thr Gln Leu Leu Ala Thr Asn Pro Pro Tyr Ser
 245 250 255
 Leu Phe Tyr Lys Ser Thr Leu Gly Tyr Thr Ile Ser Arg Glu Thr
 260 265 270
 Gln Asn Leu Gln Val Pro Tyr Phe Val Asp Lys Asn Phe Asp Lys
 275 280 285
 Ala Tyr Arg Gly Ala Ser Leu His Asp Leu Glu Lys Thr Ile Glu
 290 295 300
 Lys Asp Tyr Ile Asp Tyr Ile Gln Thr Ser Cys Trp Lys Glu Lys
 305 310 315
 Gln Gln Lys Ser Glu Leu Thr Asn Leu Ala Gly Leu Tyr Arg Asp
 320 325 330
 Glu Arg Leu Lys Gln Lys Ala Glu Ser Leu Lys Leu Glu Asn Cys
 335 340 345
 Glu Lys Leu Ser Lys Leu Ile Gly Leu Arg Arg Gly Gly
 350 355
<210> 7
<211> 928
<212> PRT
<213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 1825012CD1

<400> 7
 Met Gly Gly Ser Ala Ser Ser Gln Leu Asp Glu Gly Lys Cys Ala
 1 5 10 15
 Tyr Ile Arg Gly Lys Thr Glu Ala Ala Ile Lys Asn Phe Ser Pro
 20 25 30
 Tyr Tyr Ser Arg Gln Tyr Ser Val Ala Phe Cys Asn His Val Arg
 35 40 45
 Thr Glu Val Glu Gln Gln Arg Asp Leu Thr Ser Gln Phe Leu Lys
 50 55 60
 Thr Lys Pro Pro Leu Ala Pro Gly Thr Ile Leu Tyr Glu Ala Glu
 65 70 75
 Leu Ser Gln Phe Ser Glu Asp Ile Lys Lys Trp Lys Glu Arg Tyr
 80 85 90
 Val Val Val Lys Asn Asp Tyr Ala Val Glu Ser Tyr Glu Asn Lys

Glu	Ala	Tyr	Gln	Arg	95	Gly	Ala	Ala	Pro	Lys	Cys	Arg	Ile	Leu	Pro	
				110						115					120	
Ala	Gly	Gly	Lys	Val	125	Leu	Thr	Ser	Glu	Asp	Glu	Tyr	Asn	Leu	Leu	
					140										135	
Ser	Asp	Arg	His	Phe	140	Pro	Asp	Pro	Leu	Ala	Ser	Ser	Glu	Lys	Glu	
					155					145					150	
Asn	Thr	Gln	Pro	Phe	170	Val	Val	Leu	Pro	Lys	Glu	Phe	Pro	Val	Tyr	
											160				165	
Leu	Trp	Gln	Pro	Phe	185	Phe	Arg	His	Gly	Tyr	Phe	Cys	Phe	His	Glu	
										175					180	
Ala	Ala	Asp	Gln	Lys	200	Arg	Phe	Ser	Ala	Leu	Leu	Ser	Asp	Cys	Val	
										190					195	
Arg	His	Leu	Asn	His	200	Asp	Tyr	Met	Lys	Gln	Met	Thr	Phe	Glu	Ala	
										205					210	
Gln	Ala	Phe	Leu	Glu	215	Ala	Val	Gln	Phe	Phe	Arg	Gln	Glu	Lys	Gly	
										220					225	
His	Tyr	Gly	Ser	Trp	230	Glu	Met	Ile	Thr	Gly	Asp	Glu	Ile	Gln	Ile	
										235					240	
Leu	Ser	Asn	Leu	Val	245	Met	Glu	Glu	Leu	Leu	Pro	Thr	Leu	Gln	Thr	
										250					255	
Asp	Leu	Leu	Pro	Lys	260	Met	Lys	Gly	Lys	Lys	Asn	Asp	Arg	Lys	Arg	
										265					270	
Thr	Trp	Leu	Gly	Leu	275	Leu	Glu	Glu	Ala	Tyr	Thr	Leu	Val	Gln	His	
										280					285	
Gln	Val	Ser	Glu	Gly	290	Leu	Ser	Ala	Leu	Lys	Glu	Glu	Cys	Arg	Ala	
										295					300	
Leu	Thr	Lys	Gly	Leu	305	Glu	Gly	Thr	Ile	Arg	Ser	Asp	Met	Asp	Gln	
										310					315	
Ile	Val	Asn	Ser	Lys	320	Asn	Tyr	Leu	Ile	Gly	Lys	Ile	Lys	Ala	Met	
										325					330	
Val	Ala	Gln	Pro	Ala	335	Glu	Lys	Ser	Cys	Leu	Glu	Ser	Val	Gln	Pro	
										340					345	
Phe	Leu	Ala	Ser	Ile	350	Leu	Glu	Glu	Leu	Met	Gly	Pro	Val	Ser	Ser	
										355					360	
Gly	Phe	Ser	Glu	Val	365	Arg	Val	Leu	Phe	Glu	Lys	Glu	Val	Asn	Glu	
										370					375	
Val	Ser	Gln	Asn	Phe	380	Gln	Thr	Thr	Lys	Asp	Ser	Val	Gln	Leu	Lys	
										385					390	
Glu	His	Leu	Asp	Arg	395	Leu	Met	Asn	Leu	Pro	Leu	His	Ser	Val	Lys	
										400					405	
Met	Glu	Pro	Cys	Tyr	410	Thr	Lys	Val	Asn	Leu	Leu	His	Glu	Arg	Leu	
										415					420	
Gln	Asp	Leu	Lys	Ser	425	Arg	Phe	Arg	Phe	Pro	His	Ile	Asp	Leu	Val	
										430					435	
Val	Gln	Arg	Thr	Gln	440	Asn	Tyr	Met	Gln	Glu	Leu	Met	Glu	Asn	Ala	
										445					450	
Val	Phe	Thr	Phe	Glu	455	Gln	Leu	Leu	Ser	Pro	His	Leu	Gln	Gly	Glu	
										460					465	
Ala	Ser	Lys	Thr	Ala	470	Val	Ala	Ile	Glu	Lys	Val	Lys	Leu	Arg	Val	
										475					480	
Leu	Lys	Gln	Tyr	Asp	485	Tyr	Asp	Ser	Ser	Thr	Ile	Arg	Lys	Lys	Ile	
										490					495	
Phe	Gln	Glu	Ala	Leu	500	Ala	Val	Gln	Ile	Thr	Leu	Pro	Thr	Val	Gln	Lys
										505					510	
Ala	Leu	Ala	Ser	Thr	515	Cys	Lys	Pro	Glu	Leu	Gln	Lys	Tyr	Glu	Gln	
										520					525	
Phe	Ile	Phe	Ala	Asp	530	His	Thr	Asn	Met	Ile	His	Val	Glu	Asn	Val	
										535					540	
Tyr	Glu	Glu	Ile	Leu	545	His	Gln	Ile	Leu	Leu	Asp	Glu	Thr	Leu	Lys	
										550					555	
Val	Ile	Lys	Glu	Ala	560	Ala	Ile	Leu	Lys	Lys	His	Asn	Leu	Phe	Glu	
										565					570	
Asp	Asn	Met	Ala	Leu	575	Pro	Ser	Glu	Ser	Val	Ser	Ser	Leu	Thr	Asp	
										580					585	
Leu	Lys	Pro	Pro	Thr	590	Gly	Ser	Asn	Gln	Ala	Ser	Pro	Ala	Arg	Arg	
										595					600	

Ala Ser Ala Ile Leu Pro Gly Val Leu Gly Ser Glu Thr Leu Ser
 605 610 615
 Asn Glu Val Phe Gln Glu Ser Glu Glu Lys Gln Pro Glu Val
 620 625 630
 Pro Ser Ser Leu Ala Lys Gly Glu Ser Leu Ser Leu Pro Gly Pro
 635 640 645
 Ser Pro Pro Pro Asp Gly Thr Glu Gln Val Ile Ile Ser Arg Val
 650 655 660
 Asp Asp Pro Val Val Asn Pro Val Ala Thr Glu Asp Thr Ala Gly
 665 670 675
 Leu Pro Gly Thr Cys Ser Ser Glu Leu Glu Phe Gly Gly Thr Leu
 680 685 690
 Glu Asp Glu Glu Pro Ala Gln Glu Glu Pro Glu Pro Ile Thr Ala
 695 700 705
 Ser Gly Ser Leu Lys Ala Leu Arg Lys Leu Leu Thr Ala Ser Val
 710 715 720
 Glu Val Pro Val Asp Ser Ala Pro Val Met Glu Glu Asp Thr Asn
 725 730 735
 Gly Glu Ser His Val Pro Gln Glu Asn Glu Glu Glu Glu Lys
 740 745 750
 Glu Pro Ser Gln Ala Ala Ala Ile His Pro Asp Asn Cys Glu Glu
 755 760 765
 Ser Glu Val Ser Glu Arg Glu Ala Gln Pro Pro Cys Pro Glu Ala
 770 775 780
 His Gly Glu Glu Leu Gly Gly Phe Pro Glu Val Gly Ser Pro Ala
 785 790 795
 Ser Pro Pro Ala Ser Gly Gly Leu Thr Glu Glu Pro Leu Gly Pro
 800 805 810
 Met Glu Gly Glu Leu Pro Gly Glu Ala Cys Thr Leu Thr Ala His
 815 820 825
 Glu Gly Arg Gly Gly Lys Cys Thr Glu Glu Gly Asp Ala Ser Gln
 830 835 840
 Gln Glu Gly Cys Thr Leu Gly Ser Asp Pro Ile Cys Leu Ser Glu
 845 850 855
 Ser Gln Val Ser Glu Glu Gln Glu Glu Met Gly Gly Gln Ser Ser
 860 865 870
 Ala Ala Gln Ala Thr Ala Ser Val Asn Ala Glu Glu Ile Lys Val
 875 880 885
 Ala Arg Ile His Glu Cys Gln Trp Val Val Glu Asp Ala Pro Asn
 890 895 900
 Pro Asp Val Leu Leu Ser His Lys Asp Asp Val Lys Glu Gly Glu
 905 910 915
 Gly Gly Gln Glu Ser Phe Pro Glu Leu Pro Ser Glu Glu
 920 925

<210> 8

<211> 159

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1906464CD1

<400> 8

Met Gln Arg Val Gly Asn Thr Phe Ser Asn Glu Ser Arg Val Ala
 1 5 10 15
 Ser Arg Cys Pro Ser Val Gly Leu Ala Glu Arg Asn Arg Val Ala
 20 25 30
 Thr Met Pro Val Arg Leu Leu Arg Asp Ser Pro Ala Ala Gln Glu
 35 40 45
 Asp Asn Asp His Ala Arg Asp Gly Phe Gln Met Lys Leu Asp Ala
 50 55 60
 His Gly Phe Ala Pro Glu Glu Leu Val Val Gln Val Asp Gly Gln
 65 70 75
 Trp Leu Met Val Thr Gly Gln Gln Leu Asp Val Arg Asp Pro
 80 85 90
 Glu Arg Val Ser Tyr Arg Met Ser Gln Lys Val His Arg Lys Met

95	100	105
Leu Pro Ser Asn Leu Ser Pro Thr Ala Met Thr Cys Cys Leu Thr		
110	115	120
Pro Ser Gly Gln Leu Trp Val Arg Gly Gln Cys Val Ala Leu Ala		
125	130	135
Leu Pro Glu Ala Gln Thr Gly Pro Ser Pro Arg Leu Gly Ser Leu		
140	145	150
Gly Ser Lys Ala Ser Asn Leu Thr Arg		
155		

<210> 9

<211> 235

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1979146CD1

<400> 9

Met Trp Arg Gly Arg Ala Gly Ala Leu Leu Arg Val Trp Gly Phe			
1	5	10	15
Trp Pro Thr Gly Val Pro Arg Arg Arg Pro Leu Ser Cys Asp Ala			
20	25	30	
Ala Ser Gln Ala Gly Ser Asn Tyr Pro Arg Cys Trp Asn Cys Gly			
35	40	45	
Gly Pro Trp Gly Pro Gly Arg Glu Asp Arg Phe Phe Cys Pro Gln			
50	55	60	
Cys Arg Ala Leu Gln Ala Pro Asp Pro Thr Arg Asp Tyr Phe Ser			
65	70	75	
Leu Met Asp Cys Asn Arg Ser Phe Arg Val Asp Thr Ala Asn Val			
80	85	90	
Gln His Arg Tyr Gln Gln Leu Gln Arg Leu Val His Pro Asp Phe			
95	100	105	
Phe Ser Gln Arg Ser Gln Thr Glu Lys Asp Phe Ser Glu Lys His			
110	115	120	
Ser Thr Leu Val Asn Asp Ala Tyr Lys Thr Leu Leu Ala Pro Leu			
125	130	135	
Ser Arg Gly Leu Tyr Leu Leu Lys Leu His Gly Ile Glu Ile Pro			
140	145	150	
Glu Arg Thr Asp Tyr Glu Met Asp Arg Gln Phe Leu Ile Glu Ile			
155	160	165	
Met Glu Ile Asn Glu Lys Leu Ala Glu Ala Glu Ser Glu Ala Ala			
170	175	180	
Met Lys Glu Ile Glu Ser Ile Val Lys Ala Lys Gln Lys Glu Phe			
185	190	195	
Thr Asp Asn Val Ser Ser Ala Phe Glu Gln Asp Asp Phe Glu Glu			
200	205	210	
Ala Lys Glu Ile Leu Thr Lys Met Arg Tyr Phe Ser Asn Ile Glu			
215	220	225	
Glu Lys Ile Lys Leu Lys Lys Ile Pro Leu			
230	235		

<210> 10

<211> 260

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 5680480CD1

<400> 10

Met Gly Leu Leu Asp Leu Cys Glu Glu Val Phe Gly Thr Ala Asp			
1	5	10	15
Leu Tyr Arg Val Leu Gly Val Arg Arg Glu Ala Ser Asp Gly Glu			
20	25	30	
Val Arg Arg Gly Tyr His Lys Val Ser Leu Gln Val His Pro Asp			
35	40	45	

Arg Val Gly Glu Gly Asp Lys Glu Asp Ala Thr Arg Arg Phe Gln
 50 55 60
 Ile Leu Gly Lys Val Tyr Ser Val Leu Ser Asp Arg Glu Gln Arg
 65 70 75
 Ala Val Tyr Asp Glu Gln Gly Thr Val Asp Glu Asp Ser Pro Val
 80 85 90
 Leu Thr Gln Asp Arg Asp Trp Glu Ala Tyr Trp Arg Leu Leu Phe
 95 100 105
 Lys Lys Ile Ser Leu Glu Asp Ile Gln Ala Phe Glu Lys Thr Tyr
 110 115 120
 Lys Gly Ser Glu Glu Glu Leu Ala Asp Ile Lys Gln Ala Tyr Leu
 125 130 135
 Asp Phe Lys Gly Asp Met Asp Gln Ile Met Glu Ser Val Leu Cys
 140 145 150
 Val Gln Tyr Thr Glu Glu Pro Arg Ile Arg Asn Ile Ile Gln Gln
 155 160 165
 Ala Ile Asp Ala Gly Glu Val Pro Ser Tyr Asn Ala Phe Val Lys
 170 175 180
 Glu Ser Lys Gln Lys Met Asn Ala Arg Lys Arg Arg Ala Gln Glu
 185 190 195
 Glu Ala Lys Glu Ala Glu Met Ser Arg Lys Glu Leu Gly Leu Asp
 200 205 210
 Glu Gly Val Asp Ser Leu Lys Ala Ala Ile Gln Ser Arg Gln Lys
 215 220 225
 Asp Arg Gln Lys Glu Met Asp Asn Phe Leu Ala Gln Met Glu Ala
 230 235 240
 Lys Tyr Cys Lys Ser Ser Lys Gly Gly Lys Lys Ser Ala Leu
 245 250 255
 Lys Lys Glu Lys Lys
 260

<210> 11
 <211> 269
 <212> PRT
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 1459372CD1

<400> 11

Met	Ala	Gly	Val	Pro	Glu	Asp	Glu	Leu	Asn	Pro	Phe	His	Val	Leu
1				5					10					15
Gly	Val	Glu	Ala	Thr	Ala	Ser	Asp	Val	Glu	Leu	Lys	Lys	Ala	Tyr
				20					25					30
Arg	Gln	Leu	Ala	Val	Met	Val	His	Pro	Asp	Lys	Asn	His	His	Pro
				35				40						45
Arg	Ala	Glu	Glu	Ala	Phe	Lys	Val	Leu	Arg	Ala	Ala	Trp	Asp	Ile
				50				55						60
Val	Ser	Asn	Ala	Glu	Lys	Arg	Lys	Glu	Tyr	Glu	Met	Lys	Arg	Met
				65				70						75
Ala	Glu	Asn	Glu	Leu	Ser	Arg	Ser	Val	Asn	Glu	Phe	Leu	Ser	Lys
				80				85						90
Leu	Gln	Asp	Asp	Leu	Lys	Glu	Ala	Met	Asn	Thr	Met	Met	Cys	Ser
				95				100						105
Arg	Cys	Gln	Gly	Lys	His	Arg	Arg	Phe	Glu	Met	Asp	Arg	Glu	Pro
				110				115						120
Lys	Ser	Ala	Arg	Tyr	Cys	Ala	Glu	Cys	Asn	Arg	Leu	His	Pro	Ala
				125				130						135
Glu	Glu	Gly	Asp	Phe	Trp	Ala	Glu	Ser	Ser	Met	Leu	Gly	Leu	Lys
				140				145						150
Ile	Thr	Tyr	Phe	Ala	Leu	Met	Asp	Gly	Lys	Val	Tyr	Asp	Ile	Thr
				155				155						165
Glu	Trp	Ala	Gly	Cys	Gln	Arg	Val	Gly	Ile	Ser	Pro	Asp	Thr	His
				170				175						180
Arg	Val	Pro	Tyr	His	Ile	Ser	Phe	Gly	Ser	Arg	Ile	Pro	Gly	Thr
				185				185						195
Arg	Gly	Arg	Gln	Arg	Ala	Thr	Pro	Asp	Ala	Pro	Pro	Ala	Asp	Leu

Gln	Asp	Phe	Leu	Ser	Arg	Ile	Phe	Gln	Val	Pro	Pro	Gly	Gln	Met
200					205									
215					220									225
Pro	Asn	Gly	Asn	Phe	Phe	Ala	Ala	Pro	Gln	Pro	Ala	Pro	Gly	Ala
230						235								240
Ala	Ala	Ala	Ser	Lys	Pro	Asn	Ser	Thr	Val	Pro	Lys	Gly	Glu	Ala
245						250								255
Lys	Pro	Lys	Arg	Arg	Lys	Lys	Val	Arg	Arg	Pro	Phe	Gln	Arg	
260						265								

<210> 12

<211> 1550

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 723593CB1

<400> 12

gtcggaggcct ggcacgctcg cccagaggcc tgcgcccaca ccctctcctg tccagccctc 60
 gccccctgg gcaggggcccg gcgcgtccg tggatgagcc acagaacctc ttccaccttc 120
 cgagcggaga gaagtttcca ttccttctt tcttcctctt ccttccac ctccctcctg 180
 gcctccctgtt ccctcccgcc ccaggaccgg cccatggaga aggccttgag catgtttcc 240
 gatgacttg gcagcttcat gggcccccac tcggagccccc tggccttccc agcccgcccc 300
 ggtggggcag gcaacatcaa gacccttagga gacgcctatg agtttgcggg ggacgtgaga 360
 gacttctcac ctgaagacat cattgtcacc acctccaaca accacatcgaa ggtgcgggct 420
 gagaagctgg cgctgacgg cactgtcatg aacacccatcg ctcacaaatcg ccagctggcg 480
 gaggacgtgg acccgacgac ggtgacctcg gctctgcggg aggacggcag cctcaactatc 540
 cgggcacggc gtaccccgca tacagaacac gtccagcaga cttccggac ggagatcaaa 600
 atctgagtgc ctctcccttc ctttccctg tccccccggcc ccacgcctgc cagcaaagcc 660
 tcgctaaccc cattacaaca gctccaggac atctcagccc aggttcttagc cccacgcac 720
 cccagacccc aggtggacca tcctccaaa cttagggccct ccactctatc cagggcaggc 780
 caggagatcc cttggcctgac acatgtatgc cagatttcag atttggcctc cgtcaactaa 840
 tccagatgtac aggggctggg gtcagggaaag gaagatctaa agaaccact gtgggtcagg 900
 ggaatgggac cagcaggaca tatggcagaa ctctgcaggaa cagacagaca gacaaacct 960
 ctgatctatg aagtctctgc agggcaagggg gagcaggagac ctggaaacctt cttggccaag 1020
 gggagtgaaa gggacagaggg gaaggtcaca ggcaagggtg cctatctaag tggaactaat 1080
 tgcccggaggg ctcagcaagg ccaagaggac acagccgtga cggtaaactt cccctctacc 1140
 agcctccaag ccccacgcca gcgagcaggc tgcctgccc cccctgtccc ccagccagct 1200
 ggctgtgcca gggcagagcc atgccacatc tgtatataaa tgggtttttt ccaatacagc 1260
 tggttcgtga taaactgtcat gaaactcctg cctgtcctgct cctgtctggg cctccaggca 1320
 agggccacgtg gggttggggg tggggctgtt ctttccctt cccacaggcc tgggttcttg 1380
 gggctgtcc catgcagaca ggatcaccta acagagatgg aagccaggcc atggatgggg 1440
 ctttgggtcc tcaagggtgg accccacgtt ctggccaccc tccccccccc gcagtcaagt 1500
 ctccatccat cccctctttt aatctatgaa ttatagatgg cggtgtgtgt 1550

<210> 13

<211> 1075

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1708350CB1

<400> 13

cagaacacaaa ttcccagagg gctaggcgcc gctcgaggcc tgcagtccctc acgcgcgcctt 60
 agactcttgg gagttgttagt acgaatccgt caggccggaa ccatggcagt gaccaaggag 120
 ctcttacaga tggacctgtt cgcgtctgtt ggcattgagg agaaggcagc ggacaaagag 180
 gtaaagaagg cgtataggca gaaggccctc tcctgccacc cagacaaaaaa tccagataat 240
 cccagagcag ctgaacttcc ccaccagctt tctcaggccct tggaggtgct gaccgatgt 300
 gcagccaggc ctgcataatga caaggtcagg aaagccaaga agcaagcagc agagaggacc 360
 cagaaacttg atgagaaaaag gaagaaaatgt aagcttgacc tggaggcccg ggagcggcag 420
 gcccaggccc aggagagtga ggagggaaag gagagccggaa gcaccaggac actagagcaa 480
 gagatcgaaac gcctgagaga agagggttcc cggcagctgg aggaacagca gaggctcatc 540
 cgggagcaga taccccgaggc gcgtgaccag aggttgagag gaaaggcaga aaatactgaa 600
 ggccaaggaa ccccaactt aaagctaaaa ttatagatggc agaaggagga tgagtcaaaa 660

ggtggctact ccaaagacgt cctcctacgg cttttcaga agtatggta gtttcaac 720
 ctggtgctt ccagtaagaa gccaggcaact gctgtggg agtttcaac cgtcaagga 780
 gcggagctgg ctgtccagaa tgaaggcgc ctgggtgata accctctgaa gatttcctgg 840
 ttggaggggac accccccagga tgccgtggc cgccagccact caggactgtc aaaggggctca 900
 gtgctgtcag agagggacta cgagagcctc gtcatgtgc gcatgcgcc ggcggccgag 960
 cgccaacacgc tgatcgacg gatgcacgag gaagaccagg agggggccccc tacgttagccc 1020
 cagctccacgc catccaccccg tcagccctt tcttcaacgt cgcgagataa attta 1075

<210> 14
 <211> 1950
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 1742550CB1

<400> 14
 aagagagccc gaggcaggta gctgcagttc ccctccaaga cttctccaca cctgtttgac 60
 caggtacaag atcaggcgcc ggggtcatct gttcaacttcc acacggggtc aggacaagag 120
 tcaccccgag ctctgaggcc agatggtaat tccaatcgcc tccccagttc agcagcgaac 180
 ccagcaagac gaagataatt ttcgaaacat tcaggctcg ggtagacgt cgcaatggag 240
 tgctgtcctc gccggctttgg agccacgggg catggcaag gatgcatcat ctgcagacat 300
 cagaaaaagcatacgtaaatcgttccat tttcacatcc gacaagaata aagatgaaaa 360
 tgcagaaaact cagtttagac aatttgggtgc catttatgaa gttttaaagg atgatgaacg 420
 aaggcagagg tatgtatgata ttctgtatcaa tggacttcca gattggcgc acgcctgtatt 480
 ctactacagg cgggtgagaa aaatgagcaa tgctgagctg gcattactt ttttcattat 540
 tctcacagt ggtcattatg ctgtggttt gtcattactt ctggaaaaac aactggatga 600
 actactaagt agaaaaaaaga gagaaaaagaa aaaaaagact ggcagcaaga gtgtggatgt 660
 atcaaaaactc ggtgcttcag aaaaaaatga aagattgctg atgaaaccac agtggcatga 720
 tttgcttcca tgc当地actgg ggatttggg ttgccttaca ctaaaagcat tacctcacct 780
 catccaggat gctggggcagt tttatgctaa atataaaagaa acaagattga aggaaaaagga 840
 agatgcactg actagaactg aacttggaaacttccaaaaa cagaagaaag ttaaaaaaacc 900
 aaaacactgaa tttccctgtat acacacccctt agaaactaca tatattcgt cttatgatca 960
 tggaaacttc atagaagaaa ttgagaaaca aatggatgat tggttggaaa acaggaaccg 1020
 aacacagaaaaaaacaggcactt gtaatggac agaagaggac ctgcaccaac tgacaagaag 1080
 tatggtaag ttcccaggag ggactccagg tcgatgggaa aagattgccc acgaattggg 1140
 tcgatctgtg acagatgtga caaccaaaggc caagcaactg aaggattcag tgacctgctc 1200
 cccaggaatg gttagactct ccgaactcaa atcgacagtt cagaattcca gccccatcaa 1260
 aacggccacc accttgcggc atgacatgat caccctggc gaggacgcag aggggggtggc 1320
 agcggaggag gggcaggagg gagactccgg tgagcaggag accggggccca ctgatgccc 1380
 gcctcgagg cggaaaggccag ccaggctgtc ggaggctaca ggcacccgg agccagagga 1440
 gaagtccaga gccaaggcgc agaaggactt tgacatagca gaacaaaacg agtccagcga 1500
 cgaggagagc ctgagaaaag agagagctcg gtctgcagag gagccgtgga ctcaaaatca 1560
 acagaaactt ctggaactgg cggtgcagca gtacccaaagg ggatcctctg accgcgtggc 1620
 caaaatagcc agatgtgtcc cgtccaaaggc caagggaaac tgcatacgta ggtacaagtt 1680
 gctgggtgaa ctggtccaaa agaaaaaaaca agctaaaagc tgaatattct gggagatgat 1740
 gttcacctc attttccaaa atgaatatct taaaatctt atgcagaaat ttgcattttg 1800
 tacctaata ttctacgtc atgtgcctt gtaaaaaaaaaa ataataaata aataaaaagat 1860
 gagtgtgtg ctaaaaaaaaaa aaaaaaaaaa aaaaaactcg gtcgcaagct tattccctt 1920
 agtgagggtt aatttttagct tgcactggcc 1950

<210> 15
 <211> 1187
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 1919301CB1

<400> 15
 ctcttcacc gcctgccc tcaattcaac atggcagcca tgcgtggcg atgggtggcag 60
 cggctgttac ctggagggtt gctgcaggcc cgtggcttc cacaaaattc tgcacccagc 120
 ctggggcttag gagcgaggac ttattccag ggcgactgtc cgtatcgcc cacggcgctg 180
 tatgatctgc tggcgccccc ctccacagcc acgcaggccc aaatcaaggc ggcttactac 240
 cgtcagtgtc ttctctacca cccggaccgc aactccggga ggcggaggc cggccgagcgc 300

ttcacgcgca	tctcccaggc	ctacgtggtg	ctgggcagtg	ccaccctccg	tcgcaagtat	360
gatcgccggcc	tactcagcga	cgaggacctg	cgcggacctg	gcgtccggcc	ctccaggacg	420
cccgcacccg	accccggctc	gccgcgtacc	ccgcggccca	cctctcgac	ccacgcacgt	480
tctcgggct	ccccggcgc	caaccgcacg	atgttcaact	ttgacgcctt	ctaccaggcc	540
caactatgggg	aacaactgga	gcgggaacgg	cgcctgaggg	cccgccggga	ggcccttcgc	600
aaacggcagg	agtatcggtc	catgaaaaggc	ctccgctggg	aggatacccg	agacacggct	660
gccattttc	tcatctttc	aatcttcatc	atcatcggt	tttatattta	atcgagaga	720
gaagggaaagg	ggagtgtccc	cagccaaccc	cccgagaaacg	gcctttttc	ctgcctctga	780
accccttggcc	gttgatagtc	taccttgc	gggatccgaa	ggaactgtac	tccccctgcc	840
ctccccggacc	cgcccgagtt	agccgtatgac	ctgcacatcg	ctccactgt	gtccagaaaa	900
ggaggccctt	cgatgtctga	gaaagaggcc	ccacgctgt	gagtccgaa	agccccaggag	960
tgaaggggggt	tcctggagtc	tctaggggtc	ttttccaga	gtctgtttc	ttgcttccag	1020
atgtggtcaa	cttctggAAC	actcgctgt	gttattgt	ttagcccaa	gcaagattta	1080
tctcctcctg	ccccgcgtgt	gtatgggg	cctctgtaa	ctgaaatgt	gcaatgtgac	1140
caatttgta	ctaccaaaaag	aaaaggctg	gggttgtaaa	aaaaaaaa		1187

<210> 16
<211> 740
<212> DNA
<213> *Homo sapiens*

<220>
<221> misc_feature
<223> Incyte ID No: 2012055CB1

```
<400> 16
cgaggaggatgg gtagcagcgc ctatgtaaag ttagctaatt tgagaaggcc cacttcttgt 60
tccatggatg atggcggttg agcagatgcc aaaaaaggat tggcacagca tcctgggagc 120
agaccatct gcaaataat cagacctaaa aaaaaatata caaaaactca tattaatgt 180
tcatccagat aaacaaagt a cagatgtacc agcaggaaca gtggaggaat gtgtacagaa 240
gttcatcgaa attgtatcaag catggaaaat tcttagaaat gaagagacaa aaagagagta 300
tgacctcgag cggtgtgaag atgatctaag aaatgttagga ccagtagatg ctcaagtata 360
tcttgaagaa atgtcttgg a atgaaggtaatc ttctcagaga cagtaaaatg gaatgacc 420
ttgtatcgag atttttaag tcaaaaggca caagcattt aacttcccag gaaaatgaca 480
cacttaaaat ttccacgatc aggaggctta gtattgcacc gtattgcctc ctgggcat 540
ctcaacttcg catcttggat gttcatgtat catttgtaaa catcaaacac acacacatc 600
acccccatag attaaaaaaaa acaacaacaa catgggtttt tgtttataga cttaagtcaa 660
gattcttggaa atagtgtgac actagaagag aaagtatcca gatgttgcattt gataaaata 720
gtctggctt ctctaaaggaa 740
```

<210> 17
<211> 1361
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2238062CB1

<400>	17	tcgggcgccc	gggaggcgtcg	gcggacactgc	tgattgggaa	ccgatatggc	ggcgactctg	60
ggcagcgggg	agcgtggac	ggaagcttac	attgacgcag	ttagaagaaa	caaataccca			120
aaagacacac	ctcctgagag	tcatgacccc	tgtggctgct	gtaactgcac	gaaggcaca			180
aaggaaaaga	agtctgagaa	tgagtggact	cagacccggc	agggtgaggg	gaactccacg			240
tacagtgggg	aacagctgt	tgggttacaa	aggatcaaga	aatgcagaaa	ttactatgaa			300
attctgggg	tttctcgaga	tgctagtgtac	gaagagctt	agaaagctt	cagaaaactc			360
gcccgtaaat	ttcacccctga	caagaactgt	gctcctggag	caacagatgc	tttcaaagca			420
atagggaaat	cattgcgt	cctgagcaat	cttgataaga	gacttcgcta	tgatgaatac			480
ggagatgaac	agggtgactt	cactgcccc	cgagccagac	cttataattt	ttacaggat			540
tttgaagctg	acatcactcc	agaagagctg	ttcaacgtct	tctttggagg	acattttct			600
acaggaaata	ttcatatgtt	ttcaaatgtt	acagatgaca	cttactattt	ccgtcgacgg			660
caccgacatg	agaggacaca	gactcagaag	gaggaggaa	aagagaaaacc	ttagactaca			720
tattctgcat	ttattcagct	acttccagtt	cttgtgattt	tgatttatatc	tgtcattact			780
cagctgctgg	ctactaatcc	cccatatagt	ctgttctata	aatcgacctt	gggctacacc			840
atttcttagag	aaactcagaa	cctgcaggtt	ctttactttt	tggataaaaa	ctttgacaag			900
gcctacagag	gagcttctct	gcatgactt	gagaaaacaa	tagagaagga	ttacattgtat			960
atatatccaga	ctagttgttg	gaaggagaaa	caacaaaagt	cagagctgac	aaatttgcca			1020

ggattataca gagatgaacg attgaaacag aaagcagagt cgctgaaact taaaaactgt 1080
 gagaaaactt ccaaactcat tggcc tacgc agaggtggct gagaggataa tggcctacg 1140
 cagggtggg gtttgcac ttgttccat ttatgttctt gattccattt tataatacaa 1200
 aacttagtta tgatgaacac ttactattt gctaacttcg ttgggtggc agagtggcag 1260
 gagcatggc acgagagcca gatgtgtctt cacaggatcc ttcctggga gtggctccag 1320
 ggaccaggag tagtcatct aagttaatt aatggcaagg c 1361

<210> 18
 <211> 4475
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 1825012CB1

<400> 18
 cgcctctcgaa aggaagtttg ctcttaattt cagagccggg ttccggctcg gatcaaccctc 60
 caggagctag cagcggggcg ggaccggca gttccgcgc tcagcacagg cagctcgccg 120
 tcatggcgg ctcagcctcc agccagctgg acgaggggcaa gtgcgttac atccgaggga 180
 aaactgaggc tgccatcaaa aacttcagtc cctactacag tcgtcgttac tctgtggctt 240
 tctgcaatca cgtgcgcact gaagtagaac agcaaagaga tttaacgtca cagttttga 300
 agaccaagcc accattggcg cctggacta ttttgtatgaa agcagagcta tcacaatttt 360
 ctgaagacat aaagaagttg aaggagagat acgttgttagt taaaaatgtat tatgtgtgg 420
 agagctatga gaataaagag gcctatcaga gaggagctgc tccataatgt cgaattcttc 480
 cagccgtgg caaggtgtta acctcagaag atgaataataa tctgtgtct gacaggcatt 540
 tcccagaccc tcttgccctc agtgagaagg agaacactca gccccttggt gtcctgccc 600
 aggaattccc agtgtacctg tggcagccct tcttcagaca cggctacttc tgcttccacg 660
 aggctgtga ccagaagagg ttttagtgc tcttgagtga ctgcgtcagg catctcaatc 720
 atgattacat gaagcagatg acatttgaag cccaagcctt tttagaagct gtgcaattct 780
 tccgacagga gaagggtcac tatggttctt gggaaatgat cactgggat gaaatccaga 840
 tcttgatgaa cctggtgatg gaggagctcc tgcccactct tcagacagac ctgctgccta 900
 agatgaaggaa gaagaagaa gacagaaaaga ggacgtggct tggctccctc gaggaggcct 960
 acacccctgtt tcagcatcaa gtttccaaag gattaagtgc ctggaaaggag gaatgcagag 1020
 ctctgacaaa gggcctggaa ggaacgttcc gttctgacat ggatcagattt gtgaactcaa 1080
 agaactattt aattggaaag atcaaagcga tggtgccccca gcccggggag aaaagctgt 1140
 tggagagtgt gcagccattc ctggcatcca tcctggagga gctcatggga ccagtggat 1200
 cgggattcag tgaagtacgt gtactctt agaaagaggtt gaatgaagtc agccagaact 1260
 tccagaccac caaagacagt gtccagctaa aggagcatct agaccggctt atgaatcttc 1320
 cgctgcattc cgtaagatg gaaccttggt atactaaagt caacctgctt caccggcgcc 1380
 tgcaggatct caagagccgc ttcagattcc cccacattga tctgggtt cagaggacac 1440
 agaactacat gcaggagacta atggagaatg cagtgttccat ttttggcag ttgctttccc 1500
 cacatctcca aggagaggcc tcacaaactg cagttggccat tgagaaggat aaactccgag 1560
 tcttaaagca atatgattt gacagcaga ccatccgaaa gaagatattt caagaggcac 1620
 tagttcaaat cacacttcc actgtcaga aggcactggc gtccacatgc aaaccagagc 1680
 ttcagaaata cgagcgttc atctttcgat atcataccaa tatgatttccat gttgaaaatg 1740
 tctatgagga gattttacat cagatccctgc ttgtgaaac tctgaaatgt ataaaggaaag 1800
 ctgctatctt gaagaaacac aacttattt aagataacat ggcctgccc agtggaaatg 1860
 tgtccagctt aacagatcta aagccccca cagggtcaaa ccaggccagc cctgcccagg 1920
 gagcttctgc cattctgcca ggagttctgg gtatgtgagac cctcagtaac gaagtattcc 1980
 aggagtccaga ggaagagaag cagcctgagg tccctagctc gttggccaaa ggagaaagcc 2040
 tttctctccc tggcccaagc ccaccccccag atgggactga gcaggtgattt atttcaagag 2100
 tggatgacc cgtggatgat cctgtggcaaa cagaggacac agcagactc cccggccacat 2160
 gctcatcaga gctggatgtt ggagggaccc ttggggatgaa agaaccggcc caggaagagc 2220
 cagaacccat cactgcctcg gtttcttgc aggcgtctcgg aaagtgtcg acagcgtccg 2280
 tggaaatgacc agtggactct gctccagtg tggaaatgaa tacgtatggg gagagccacg 2340
 ttcccccaaga aaatggaaagaa gaagggaaa aagagcccaag tcaggcagct gccatccacc 2400
 ccgacaactg tggaaatgta agtgcagcg agaggaggg ccaacctccc tttccggagg 2460
 cccatgggaa ggagttgggg ggattttccag agtggagac cccagctct cccggccac 2520
 gtggagggtt caccggaggcc cccctggggc ccatggagggg ggagctccca ggagaggcct 2580
 gcacactcac tgccatgaa ggaaggggg gcaagtgtac cgagggagg gatgcctcac 2640
 agcaaggggg ctgcacccat gtttctgacc ccatctgcctt cagtgagac caggtttctg 2700
 aggaacaaga agagatggga gggcaagca ggcggccca ggccacggcc agtgtgaatg 2760
 cagaggagat caaggttagcc cgtattcatg agtgcgtt ggtggggag gatgcctcaa 2820
 acccgatgt cctgtgtca cacaatggat acgtgaagga gggagaaggt ggtcaggaga 2880
 gtttccaga gctgcctca gagggtgaa aggacaaattt tggctgaatg ctttctctg 2940
 aaaaagccaa aggttatag gggtaactt aggggttgc tgcaagctgt taccaaaaaa 3000

ttttaagta tttcttaat ttgaataata aaaccaggaa aatgcatac agggcatgag 3060
 caactgaggc aaaccccttgc ggacatgaat tttctacca tgaatttttgc ctttagtatt 3120
 ttaataagaa ttacaaagac aatggcatac ttgggggttag agggagctga ggatgtctga 3180
 ggagggata gtattgcagg gaagacttag aaaaacttagt gatgacagt tttagtatac 3240
 tctgcactt tcaattgtc aatcttcgg tgactttaa ggcttttaa tttgtttga 3300
 gaatgcaaat gtatactgtc agtctaccc tactatctac tatgcctact tcaccatctc 3360
 ttaaggactc ggcatttgcc cacagtcaga ctgcaagaga gggtaggtca tgaacagtc 3420
 cccatgtgg ctgtagcccc cacagaggca atcatgccca atagattcaa gagaagctaa 3480
 gcggaaatgg agggcggaaag gtgtgatctg tgggactgtc tgggcctgtt actcatctg 3540
 ctatcaattt ctattaaatt aatcttgatg attcttattt attaatcaca tttgcaggaa 3600
 attcagatga ggcaagaaaa ttttatttgc ctgggttaaga ctgaaagcat tccaaatttag 3660
 gcttagactg tgc当地ggc ttagctaagt tatcgagctt aaaaccctgc aattaaacaa 3720
 acattttg aacagttact gcatgccacg cactgtgtt ggcttagtaa taaaaaaaaaag 3780
 aaaagataag tgggtttctc agcataaaattt aaaaagggtcca agggaaattt atctgaaaga 3840
 gaacatatgc caatttttaa actatgacag ctttttttctc tccaaatagt 3900
 cctggttcat tcccagaagg gcacaaaatg aatgaataaa taaataaaatg aataaaagaca 3960
 aaaggcaagg tggatgtctc caagttccaa agatgttatac aaaagctgaa atcattttgtt 4020
 tggtcattca gcaagctaat tgagtctctg ttatatacca agcactggg ataccatggc 4080
 gaaaaaacaaac tttttccctt cctccttagaa cttacattttt aatggaaata gacaaaacac 4140
 atcttcttaa cgatggtga cctataacca ttaatgttga aatggaaaga gacttgcttc 4200
 caaaagatta aaaggagttt ttcttttctc cttcagaaaaa ataccagatc atttccttaaa 4260
 atctccatgc ccaagtattt catcggtt tccctccccg acttttttattt ttattttattt 4320
 ctatttttt gagatggagt ctcactctgt cgccaaaggct ggagtgcagt ggtgtatct 4380
 cggctactg caaccccccgc ctccctgggtt caggagtttcc tccctgtca gcgtccccaaag 4440
 tagtggaaat tacagccatg cggcaccattt cccgg 4475

<210> 19
 <211> 636
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 1906464CB1

<400> 19
 gaaccggagcg agcggagctg agctgggtt ggcgcgcga ggtccctcctt ctccggggct 60
 ccgtgcgcctt agctctgcgc tggagcctc ggccctttt acagcagttt gttgctgact 120
 cggatgcaga gaggcggtaa caccttctcc aacggagagcc gggtggcatc cgggtgtccc 180
 agcgtggcc ttgttgcacg gaaaccgggtt gccacaatgc cggcggctt gtcaggagac 240
 agtccagcggtt ctagggagga caatgaccat gccagagacg gttccaaat gaagctggat 300
 gcccacggctt cggcccccggaa ggaactgggtt gtgcagggtgg atggccaatg gctgtatgggt 360
 accggacacg agcaactggaa cgtcaggac cccggaaagggtt tcagttaccg catgtcacag 420
 aagggtgcacc gggaaatgtt cccgttcaac ctgagtttca cccggatgtac ctgtgcctg 480
 accccctccggc ggcagctgtt ggtcagggac cagtgtgtgg cgctggccctt ccctgaagcc 540
 caaacaggac cgtccccggag actcgggagc ctcggctcta aggcttccaa cctgaccgg 600
 taaacaaacg acgcgtatgtt cagcaaaaaaaa aaaaaa 636

<210> 20
 <211> 1090
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 1979146CB1

<400> 20
 gctttcccccc acgagtgacc acggcttagat aggccggccgg ccagatgtgg cggggggagag 60
 ccggggctttt gctccgggtt tgggggtttt ggccgcacagg gttcccaaga aggagaccgc 120
 taagctgcga tgctgcgtcg caggcggaa gcaattatcc cccgttgcgtt aactgcggcg 180
 gcccattgggg ccccgccggg gaggacaggt tttctgtccc acagtgcgcga ggcgtgcagg 240
 cacctgaccctt cactcgagac tacttcagcc ttatggactg caaccgttcc ttcagagttt 300
 atacagcgaa cgtccacccgac aggttaccacg aactgcggcg tttgtccac ccagattttt 360
 tcagccagag gtctcagact gaaaaggact ttcagagaa gcattcgacc ctggtaatgtt 420
 atgcctataaa gaccctcctt gcccccttga gcagaggact gtaccccttta aagctccatg 480
 gaatagagat tcctgaaagg acagattatg aatggacag gcaattccctc atagaaataaa 540

tggaaatcaa tgaaaaactc gcagaagctg aaagtgaagc tgccatgaaa gagattgaat 600
 ccattgtcaa agctaaacag aaagaattta ctgacaatgt gagcagtgt tttgaacaag 660
 atgacttta agaagccaag gaaatttga caaagatgag atactttca aatatagaag 720
 aaaagatcaa gttaaagaag attcccctt aattgtggat agttaaagt taaaaaaaata 780
 aagttcttgc tggcacaatg ggctcacacc tgaatccca gcacccggg aggctgaggt 840
 gggtggatga caaggtcagg agttcaagac cagctggcc aacatagtga aaccccgct 900
 ctgctgaaaa tacaaaaatt agccggcat ggtggcgcgt gcctgtaatc ccagctactt 960
 ggtaggccga ggcaggagaa tcgcttaaac ccgtgaggtg gaggtgcag tgagcagaga 1020
 tcacgcaact gcactccagc ttggcaaca gagttagctt aatcttggaa aataaataaa 1080
 tgaaaatgtat 1090

<210> 21
 <211> 1447
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 5680480CB1

<400> 21
 cgaaaaagaa gcagtcctgg gtttacccg ggcacgtgg gagcggctgc ttccctccggg 60
 gtcgtatctc cggccggcat gggctgtcg gaccccttgcg aggaagtgtt cggcaccggcc 120
 gacccattacc ggggtgtgg cgtgcacgc gaggcctccg acggcggaggt ccgacgaggc 180
 taccacaagg tttccctgcg ggtacaccgg gaccgggtgg gtgagggcga caaggaggac 240
 gcccacccgc gcttccagat cctggggaaa gtcttattccg ttctcgtgtga cagagaacag 300
 agagcagtgt acgatgagca gggaaacagtg gacgaggact ctccctgtgtc caccggac 360
 cgagactggg aggcgtattt gcccgtactc ttaaaaaga tatcttttgcg ggacattcaa 420
 gcttttggaa agacatacaa aggttggaa gaagagctgg ctgatattaa gcaggcctat 480
 ctggacttca agggtgacat ggatcagatc atggagtctg tgcttgcgt gcagttacaca 540
 gaggaaacca ggataaggaa tatcattcag caagcttattt acgccccggaa ggtcccatcc 600
 tataatgcct ttgttcaaaa atcgaacaa aagatgaatg caaggaaaag gaggggctca 660
 gaagaggcca aagaaggcaga aatgagcaga aaggaggtgg ggcttgcgtga aggctgtggat 720
 agcctgaagg cagccattca gaggcagacaa aaggatcggc aaaaggaaat ggacaatttt 780
 ctggctcaga tggaaagcaaa gtactgaaa ttcccaaaag gaggaggaa aaaatctgt 840
 ctcaagaaag aaaagaaata atggatttt tcttccaaat ggtcccttgg tgtaaatttgc 900
 tgccatcgta ggcagggtgc aggccaggatt tgaaggccaa agtcaattca gctcttgaga 960
 aaagggtgtct ttccagcctg aattttttagt attgacttgcg ccaaggccaa tctctcaacc 1020
 tggatcttagt atttccctaga aagcacttgcg cattgtgtga ggtctccatc gaagggactt 1080
 ggtgggtgaca ttggggaggg tggaggggagg cagtgtccctt cctgacacgc cttgcctcca 1140
 tggatcttgcgt gtacacagaa ctcttatcta ggatgtgggtt ctgttcatgc tgcttctgc 1200
 gatgtgcgtg tcttttagaa taggctctt accccagcttgc aacacccctcc agacacttgc 1260
 tggacagcttca tttccatc acttcccttgc ttacattttgc tcttaatgtat cttgaataga 1320
 tcctctcttc atttactca ggcagggtttt gtactgtatgc acagggttta aattacttca 1380
 agcatttttgc taagagggtgt atataattca ataaaaaaagg taaaacatgaa tgattaaaaaa 1440
 aaaaaaaaaa 1447

<210> 22
 <211> 1147
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 1459372CB1

<400> 22
 gccttgggtc aagcagaata ttaataggca gggaaatgca cctgttagcta gtggggcgcta 60
 ctgccagcct gaagaggaag tggctcgact cttgaccatg gctgggggttc ctgaggatgt 120
 gctaaaccct ttccatgtac tgggggttgc ggcacacgc tcagatgttgc aactgaagaa 180
 ggcctataga cagctggcag tggatgttgc tcctgacaaa aatcatcatc cccgggctga 240
 ggaggcccttc aagggtttgc gaggcacttgc ggacattgtc agcaatgtc aaaagcgaaa 300
 ggatgtatgc atgaaacgaa tggcagagaa tgagctgtgc cggtcgttgc atgatgttgc 360
 gtccaaagctg caagatgacc tcaaggaggc aatgaatactt atgatgtgtat ggcgtatgc 420
 agggaaagcat aggggtttgc aatggaccg ggaacctaag agtgcctatc actgtgtgt 480
 gtgtaatagg ctgcattctgc ctgaggaaagg agatcttgc gcaatgttgc gcatgttggg 540
 cctcaagatc acctactttgc cactgtatgc tgaaaagggtt tatgacatca cagagtggcc 600

tggatgccag cgtgttaggta tctcccaga tacccacaga gtcccctatc acatctcatt 660
tggtttcggg attccaggca ccagagggcg gcagagagcc accccagatg cccctctgc 720
tgatcttcag gatttcttga gtcggatctt tcaagtaccc ccagggcaga tgcccaatgg 780
gaacttctt gcagctcctc agcctgcccc tgagccgct gcagcctcta agcccaacag 840
cacagtaccc aagggagaag ccaaacctaa gccgcggaag aaagtggagga ggcccttcca 900
acgttgatgc cccttctt tcctcaaata aatgtcaggg agtcaaaagg gctgttagcac 960
aggatggagt ttgatttatac ctcctcccc caacacctag gaactgaatc tttttctttt 1020
tatttttga gatggagtct tgctctgtt cccagctgga gtgcagtgg gtgatctcag 1080
cttactgcaa cctctgtctc ccgggttcaa gcaattctcc catctcagcc tcctgagtag 1140
ctgggat 1147